Effect produced by chemical interaction in binary systems on the viscosity isotherms convex with respect to the composition axis.

Zhur.fiz.khim. 37 no.8:1757-1762 Ag '63. (MIRA 16:9)

1. Kiyevskiy politekhnicheskiy institut.
(Systems (Chemistry)) (Viscosity)

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CIA-RDP86-00513R000413010012-9

1. 18966-63 EPF(c)/EPR/EWP(j)/EWT(m)/BDS Pc-4/Pr-4/Ps-4 RM/JW/MAT ACCESSION NR: AP3006611 S/0076/63/037/009/1938/1943

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AUTHOR: Fialkov, Yu. Ya.

TITLE: Analysis of irrational viscosity isotherms of binary systems 7

SOURCE: Zh. fizicheskoy khimii, v. 37, no. 9, 1963, 1938-1943

TOPIC TAGS: Irrational isotherm , viscosity isotherm , binary system

ARSTRACT: In an earlier paper, the author pointed out that the deviation (DELTAnu) of an experimental viscosity isotherm from the isotherm calculated on the assumption that no chemical reaction is taking place between the components of the system may serve as a useful means of identifying the composition of compounds in binary systems with irrational viscosity isotherms. Here he uses the method to interpret 2 groups of irrational viscosity isotherms, as exemplified by (group 1) a pyrrole butyric acid systems and a methylene chloride acetone system and (group 2) an m-toluidine-acetic acid system, a phenol-trichloracetic acid system, and a sulfuric acid-monochloracetic acid system. In many systems, differences in isotherm S values (=nu sub 1/nu sub 2) explain the thermal dis-

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ACCESSION NR: AP3006611

placement of the maximum in irrational viscosity isotherms. Values calculated separately for each isotherm show that the DELTAnu sub max always corresponds to the same rational component ratio. The author suggests that irrational isotherms be divided into "irrational proper" and "pseudo-irrational" isotherms—the latter class comprising those for which the DELTAnu sub max matches the rational component ratio. Orig. art. has: 4 tables.

ASSOCIATION: Kievskiy politekhnicheskiy institut (Kiev Polytechnical Insitute)

SUBMITTED: 14Feb61

DATE ACQ: 30Sep63

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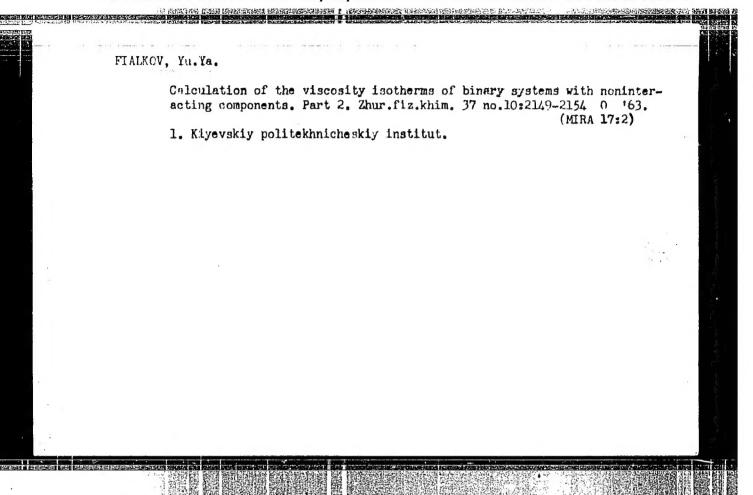
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Calculation of the viscosity isotherms of binary systems with noninteracting components. Zhur. fim. khim. 37 no.ll:2539-2542 N'63. (MIRA 17:2)

1. Kiyevskiy politekhnicheskiy institut.

KUDRA, O.K.; ZHITOMIRSKIY, A.N.; FIALKOV, Yu.Ya.

Electric transfer of ions in absolute sulfuric acid. Dokl. AN SSSR 151 no.2:377-379 J1 '63. (MIRA 16:7)

 Kiyevskiy politekhnicheskiy institut. Predstavleno akademikom V.I.Spitsynym. (Ions-Migration and velocity) (Sulfuric acid)

FIALKOV, Yu. Ya.; SLONINA, V.S.; KARTAVOV, M.S.

Iodine exchange in iodine - iodate systems. Zhur.neorg.khim. 9 no.1:
214-216 Ja '64. (MIRA 17:2)

1. Kiyevskiy politekhnicheskiy institut.

FIALKOV, Yu.Ya.; BOROVIKOV, Yu.Ya.

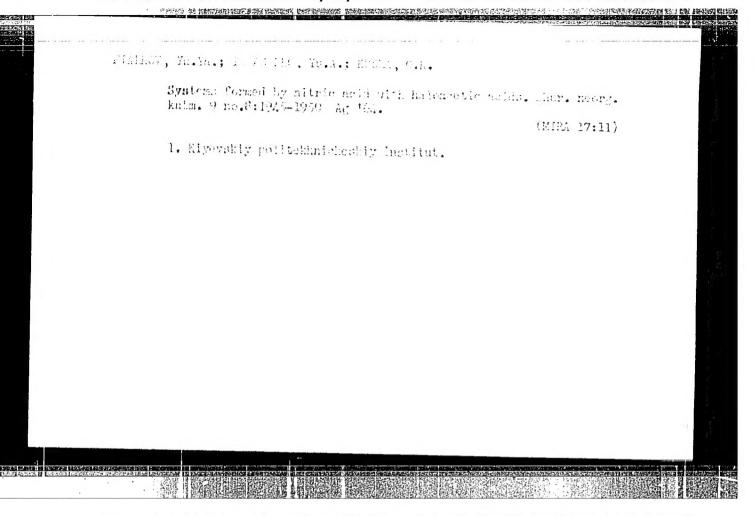
Relation between the constants of dissociation of acids in acetic acid and the properties of binary systems of the type acetic acid - acids. Ukr.khim.zhur. 30 no.2:119-125 '64. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010012-9"

FIALKOV, Yu.Ya., kand. khim. nauk

Radiometric determining of potassium as a method of rapid analysis. Khim. prom. no.4:68 O-D '64. (MIRA 18:3)



FIALKOV, Yu.Ya.; FENERLI, G.N.

Application of the volume properties in the physicochemical analysis of the binary liquid systems. Zhur. neorg. khim. 9 no.9:2231-2238 S *64. (MIRA 17:11)

1. Kiyevskiy politekhnicheskiy institut.

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KUDRA, O.K.; FIALKOV, Yu.Ya.; THITOMIRSKIY, A.N.

Transference numbers in the systems formed by water with sulfuric and orthophosphoric acids. Zhur. neorg. khim. 9 no.10:2454-2457 0 '64. (MIRA 17:12)

l. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Tadzhikskoy SSR.

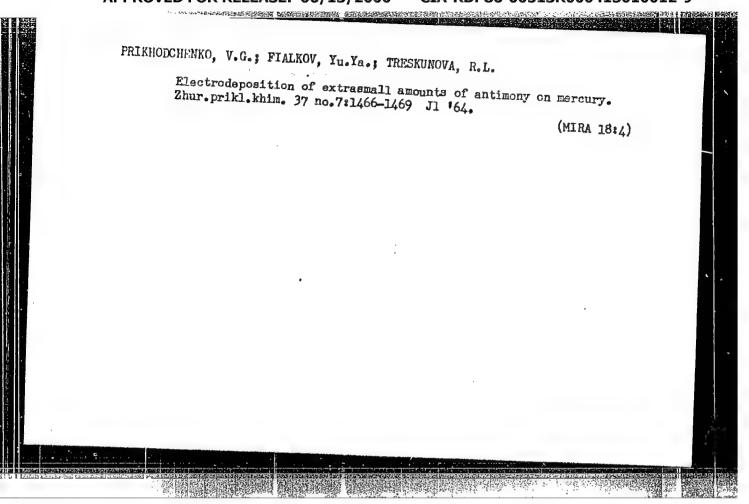
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KUDRA, O.K.; FIALKOV, Yu.Ya.; TARASENKO, Yu.A.

Physicochemical analysis of the systems trifluoroacetic

Physicochemical analysis of the systems trifluoroacetic acid - indifferent solvent. Ukr. khim. zhur. 30 no.4: 347-353 '64. (MIRA 17:6)

1. Kiyevskiy politekhnicheskiy institut.

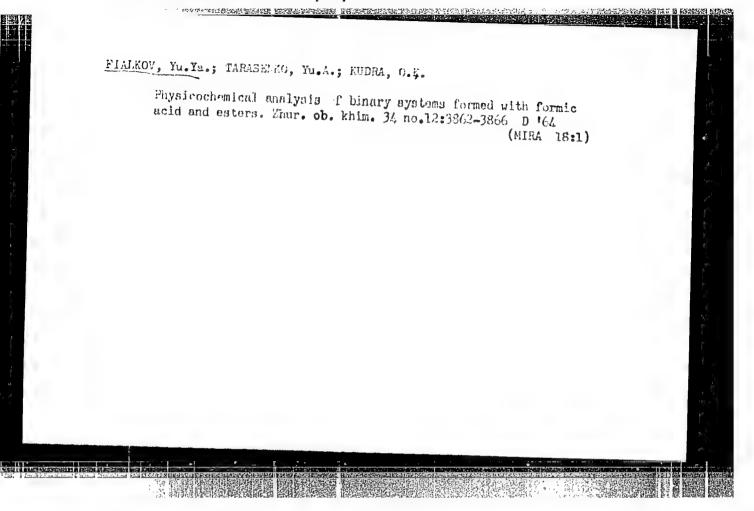


FIALKOV, Yu.Ya.; FENERLI, C.N.

Physicochemical analysis of binary liquid systems with exchange reaction. Zhur. ob. khim. 34 no.10;3146-3153 0 '64.

(MIRA 17:11)

1. Kiyevakiy politekhnicheskiy institut.



AUTHOR: Fialkov, Yu. Ya.; Borovikov, Yu. Ya.

TITLE: Dielectric constant of certain binary systems with non-interacting components

SOURCE: Ref. zh. Fizika, Abs. 11E58

REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. khim. mashinostr. i tekhnol.,

no. 1, 1965, 73-79

TOPIC TAGS: dielectric constant, refractive index, liquid property, optic property

ABSTRACT: The authors investigated the dielectric constant \(\xi\$, and also the density and refractive index of 12 binary liquid systems made up of non-interacting components. It is found that in systems made up of non-associated components good agreement between the experimental values of \(\xi\$ and those calculated by the rule of volume-fraction additivity is observed. In systems made up of weakly associated

components and non-associated components, the calculation of ε on the basis of the calculation of the fluctuations of ε gives good agreement with experiment. [Trans-

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Card 1/1 pla

FIALKOV, Yu.Ya.; FENERLI, G.N.

Physicochemical analysis of binary liquid systems with exchange interaction. Part 2: Additive properties of model systems. Ukr. khim.zhur. 31 no.2:141-147 65. (MIRA 18:/

1. Kiyevskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010012-9"

Physicochemical analysis of binary liquid systems with exchange interaction. Part 3: Nonadditive properties of model systems.

Ukr. khim. zhur. 31 no.3:258-263 '65. (MIRA 18:4)

1. Kiyevskiy politekhnicheskiy institut.

FIALKOV, Yu.Ya.; ZHITOMIRSKIY, A.N.; KUDRA, O.K.

The cort numbers in binary systems formed by sulfuric acid with orthophosphoric and monochloromeetic acids. Zhur.neorg. khim. 10 no.44934-938 Ap *65.

1. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Tadzhikskoy SSR.

FIALKOV, Yu.Ya.; CHVIRUK, O.V.; KUDRA, O.K.

Physicochemical analysis of binary liquid systems formed by amines. Part 1: Systems diphenylamine-amines. Zhur. ob. khim. (MIRA 18:10)

1. Kiyevskiy politekhnicheskiy institut.

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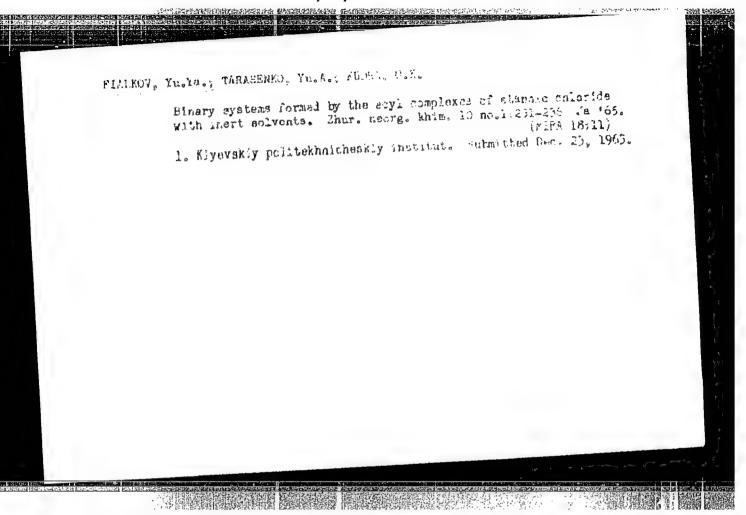
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FIGUROW, Yu.Ya.; TARASENNO, Yu.A.

Effect of viscosity on electroconductivity in binary liquid systems. Teoret. i eksper. khim. 1 no.4:473-478 '65.

(MIRA 18:10)

1. Kiyevskiy politekhnicheskiy institut.



POLAND

PIALKOVSKI, Konrad

Dept. of Computer Construction, Varsaw Polytechnic (Katedra Budowy Massym Natomatyesmych, Politechnika Varssawska)

Warsaw, Archivum automatyki i telemechaniki, No 1, Jan/Har 1966, pages 78-63

"Multiplication and division algorithms in two component binary code with radix = 3.0"

ACC NR. AP6006038

SOURCE COUN: CZ/0053/65/011/021/0292/0292

AUTHOR: Elis, J.; Gerey, K.; Fialova, O.; Rybova, B.; Sechser, T.

ORG: Institute of Pharmacology CSAV, Prague (Farmakologicky ustav CSAV)

TITLE: Effect of 6-azacytidine on pregnancy in mice [This paper was presented during the Twelfth Pharmacologic Days, Cmolenice, 27 Jan 65.]

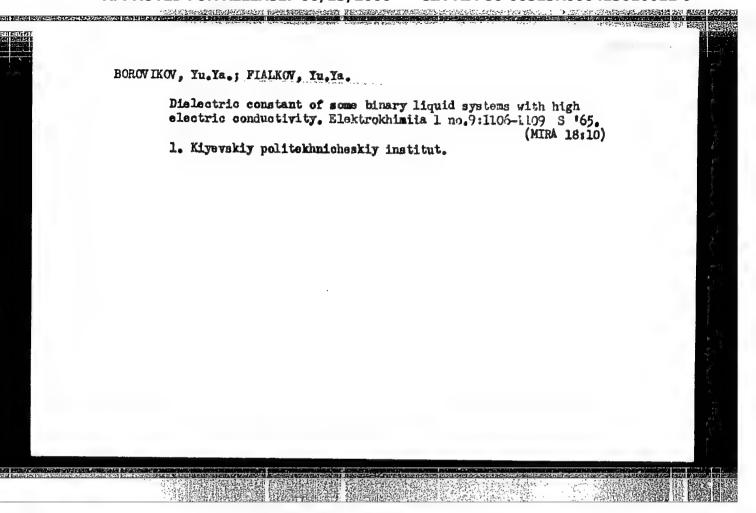
SOURCE: Ceskoslovenska fysiologie, v. 11, no. 1, 1965, 292

TOPIC TAGS: mouse, biologic reproduction, drug effect, pharmacology, heterocyclic base compound, organic nitrogen compound

ABSTRACT: Administration of 2 mg /kg i.v. of 6-azacytidine to pregnant mice interfered with trophoblast, thus causing resorption of 88% of the embryos. Data on the dosage, times and intensity of effect are given. SPRS

SUB CODE: 06 / SUEM DATE: none / ORIG REF: CO1 / OTH REF: CO1

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SHOHHKAREV, S.A.; BALICHEVA, T.G.; TARASENKO, Yu.A.; FIALFOV, Yu.Ya.

Infrared spectra of binary systems formed by sulfuric acid with acetic and chloroacetic acids. Zhur.neorg.khim. 10 no.12:2723-2727 D '65. (MIRA 1931)

1. Leningradskiy gosudarstvennyy universitet i kiyevskiy politekhnicheskiy institut.

FIAIKOV, Yu.Ya.; TSENDROVSKAYA, V.A.; KUDRA, O.K.

Temperature viscosity coefficients of binary systems. Ukr. khim. zhur. 31 no. 12:1267-1275 165 (MIRA 19:1)

1. Riyevskiy politekhmicheskiy institut. Submitted February 24, 1964.

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PINIECV, fc.Va.; AZSENOVA, V.B.

Sulfur exchange in the system sulfide - sulfate. Thur.moorg. khim. 11 no.1:215-216 Ja '66. (Mic. 1971)

1. Kiyevskiy politekhnicheskiy institut. Submitted Apvil 9, 1965.

MAZDOROV, V.; FIALKOVA, V., redaktor.

[Inventorying materials in industrial enterprises] Uchst materialov v promyshlennykh predpriiatiiakh. Moskva, Gosfinizdat, 1953. 67 p. (V pomoshch' khosiaistvennomu aktivu predpriiatii). (MLRA 7:3) (Inventorios)

KIEILLOV, I.A., prof.; BORODIN, S.V.,; VINOKUR, R.D.; VOSKRESENSKIY, A.A.; GIROVSKIY, V.F.; ZHITOMIRSKIY, E.G.; SAFRAY, G.Ye.; SYCHEV, N.G.; NIKITIN, N.D.; FILATOV, N.L.; PIALKOVA, V., red.; LEBEDEV, A., tekhn.red.

[Finances of branches of the national economy] Financy otraslei narodnogo khoziaistva. Avtorskii kollektiv pod rukovodstvom I.A.Kirillova. Moskva, Gosfinizdat, 1958. 302 p. (MIRA 12:2) (Finance)

JEDLICKA, J.; JAROSOVA, V.; FIALOVA, V.

Facotrs influencing the electrocardiogram in chronic pulmonary heart disease. Acta Univ. Carol. [med.] (Praha) 10:suppl. 17:71-78 *63

1. Kardiologicka laborator, II. interni klinika a II. thirurgicka klinika fakulty vseobecneho lekarstvi University Karlevy v Praze.

FIALOVA, V.; JEZEK, V.; OUREDNIK, A.; KROUZKOVA, L.

The effect of hypoxemia and respiratory acidosis on the electrocardiogram in chronic cor pulmonale. Sborn. lek. 67 no.5:140-145 My'65.

1. II. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze a kardiologicka laborator fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles, DrSc.).

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9,4177 (1035,1051)

S/185/61/006/006/019/030 D299/D304

Vb.242° AUTHOR:

Fialkovs'ka, O.V.

TITLE:

Infrared absorption-spectrum of germanium with iron

impurities

PERIODICAL:

Ukrayins kyy fizychnyy zhurnal, v. 6, no. 6, 1961,

822 - 827

TEXT: The absorption spectra were studied of single crystals of "pure" germanium, as well as of germanium with iron impurities, having different (n and p)-type conductivity, over a large temperature interval (473 to 20°K), in the 2.5 - 14 μ range (0.6 - 0.08 ev). Mainly low-ohmic specimens of short lifetime were studied. The presence of the impurity (of the order of 4 · 1013 - 1014 atom/cm³) was controlled by the changes in conductivity. In the absorption spectrum of pure germanium, continuous absorption was observed. In the absorption spectrum of n-type Ge (with Sb-impurity), no intensive absorption bands could be observed at 293 and 20°K. In the absorption spectrum of p-type Ge (Fe impurity), at 293°K, an absorpcard (1/4)

\$/185/61/006/006/019/030 D299/D304

Infrared absorption-spectrum of ...

tion band appeared at 4.6 μ (0.27 ev), as well as another, very broad, band at 2.9 \mu (0.36 ey), having several weak maxima. A temperature drop from 293 to 200K, led to a sharp change in the spectra the absorption band 4.6 u disappeared completely, but a very strong absorption band appeared at 3.9 µ (0.32 ev). In order to ascertain the nature of the observed absorption bands, a number of investigations were carried out. It was found that lattice dislocations play no part in the observed phenomena. An investigation of absorption spectra of Ge with Ga-impurity (p-type), showed that the absorption band 3.9 p appears also in this case, provided the Ga concentration is maximal. Further, the influence of annealing was studied on p-type Ge (with Fe-impurity). Repeated annealing of the specimen led to an increase in resistivity to 3.4 ohmocm, and to the disappearance of the 4.6 µ-band. The 3.9µ-band remained. Hence, the conclusion that the observed absorption bands are of a different nature. Further, the temperature dependence of the absorption spectra was studied. A lowering of temperature was accompanied by an unequal shift in the longwave- and shortwave sides of the absorption band -- namely, the shortwave side was shifted at a faster ra-Card 2/4

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Infrared absorption-spectrum of ...

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te. The longwave band is investigated in more detail; it was found to be of a complex nature, its behavior being non-monotonous with respect to intensity as well as to shift in the absorption maximum. This results is of interest, being obtained for the first time; it is apparently related to 2 different transitions (near in frequency) Further, the observed effects are interpreted from the point of view of energyband theory. The 0.36 ev band can be interpreted as freecarrier absorption, due to transitions inside the valence band. Introduction of Ga-impurities in Ge, leads to the formation of an additional 0.01 ev level in the vicinity of the valence band. The observed increase in absorption intensity at lower temperatures, is due to a redistribution of holes. The author compares his results to those obtained by Western investigators (Ref. 5: H. Briggs, R. Fletcher, Phys. Rev., 87, 1130, 1952; 91, 1342, 1953); (Ref. 6: R. Newman, Phys. Rev., 96, 1188, 1954). With respect to the 0.36 evbands, the results were in agreement; the author however, observed an additional band (0.32 ev). Above 100°K, it can be assumed that absorption, due to electron transitions from the upper part of the valence band, is superposed on hole-absorption. At 2930K, an absorp-

Card 3/4

S/185/61/006/006/019/030 D299/D304

Infrared absorption-spectrum of ...

tion band (0.27 ev) was observed, whose intensity depends on the heat treatment. This is in agreement with the results of other Soviet investigations. There are 6 figures and 6 references: 2 Soviet bloc and 4 non-Soviet-bloc. The references to the English-language bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: W. Tyler, H. Woodbury, Phys. Rev. 96, publications read as follows: W. Tyler, H. Woodbury, Phys. Rev. 96, 874, 1954; R. Newman, W. Tyler, Phys. Rev., 96, 882, 1954; H. Briggs R. Fletcher, Phys. Rev. 87, 1130, 1952; 91, 1342, 1953; R. Newman, Phys. Rev., 96, 1188, 1954.

ASSOCIATION: Instytut fizyky AS UkrRSR (Institute of Physics of the AS UkrRSR, Kyyiv)

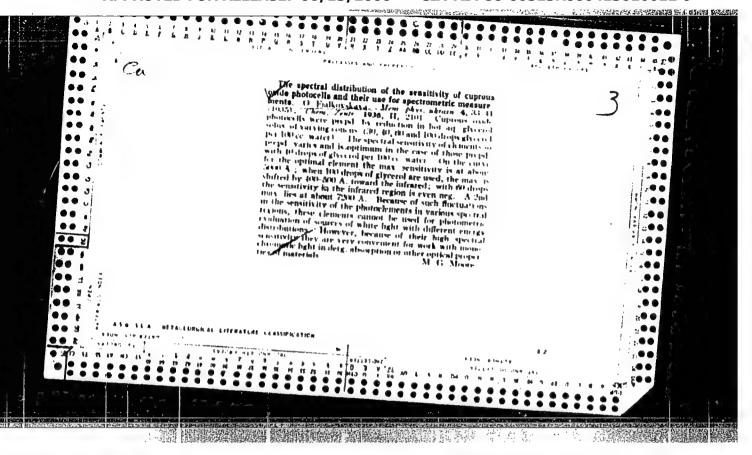
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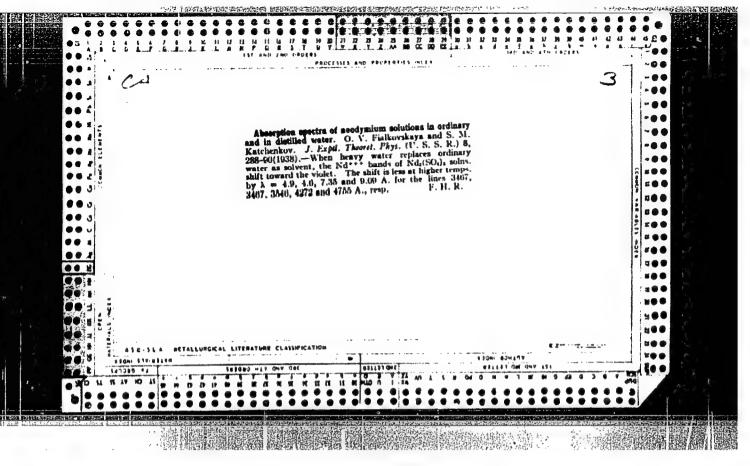
FIALKOVSKAYA, O.V. [Fialkovs'ka, O.V.]

Infrared absorption spectrum of germanium doped with iron.

Ukr.fiz.shur. 6 no.6:822-827 N-D '61. (MIRA 16:5)

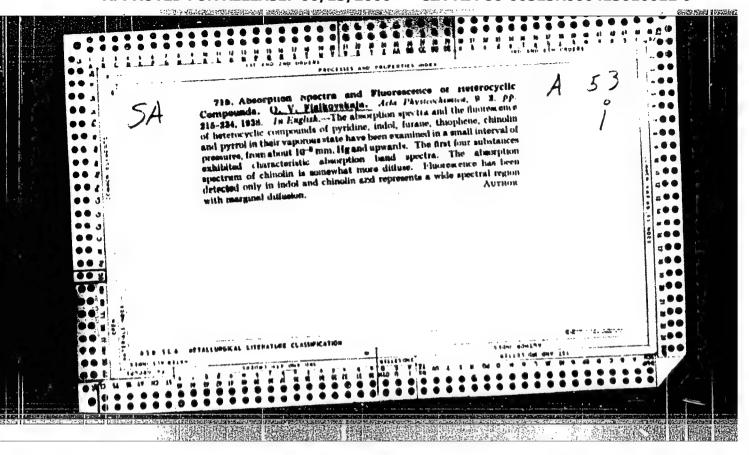
1. Institut fiziki AN UkrSSR, Kiyev.
(Germanium—Spectra)

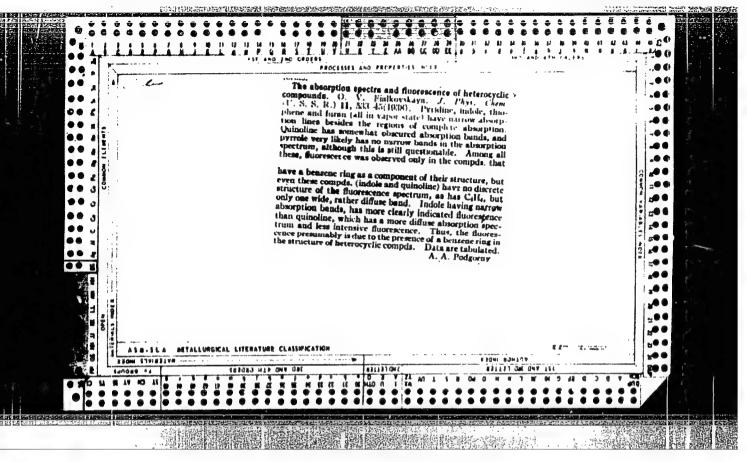


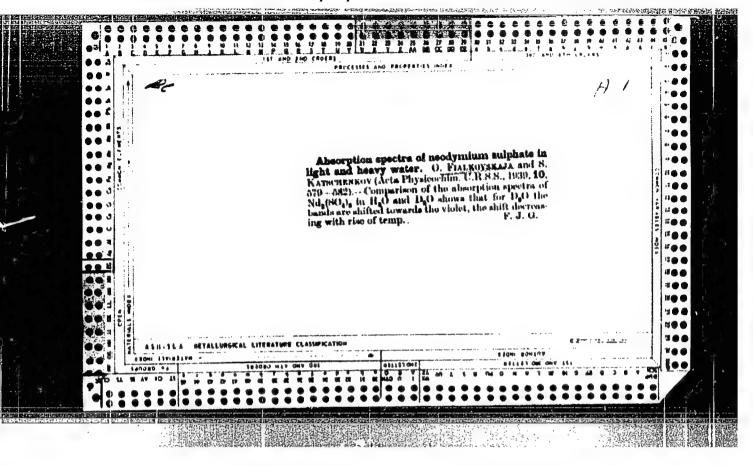


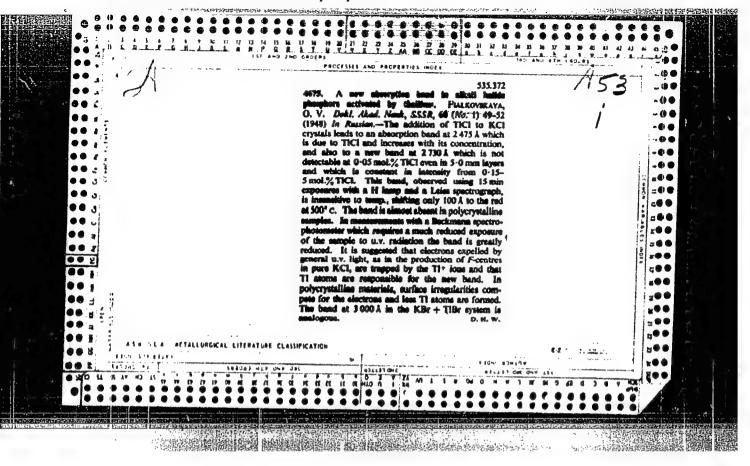
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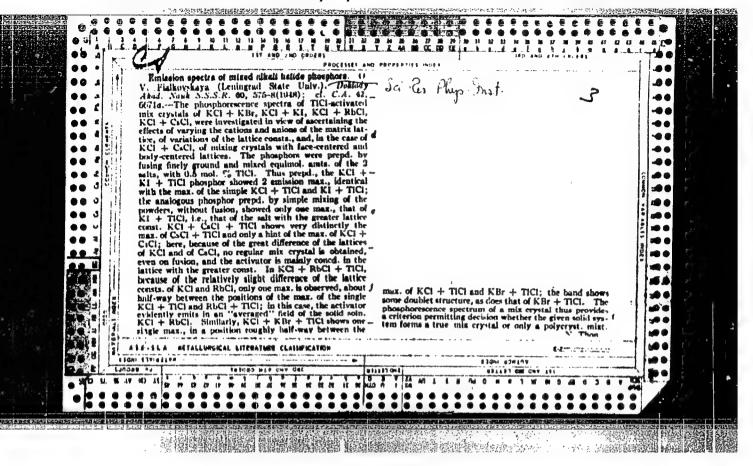
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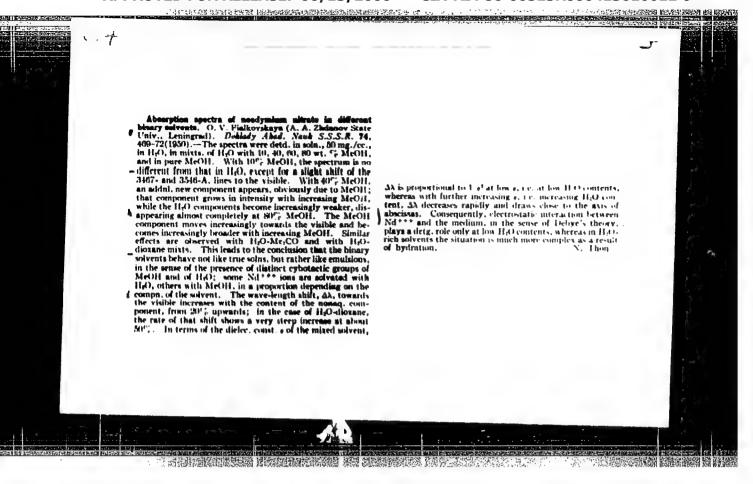


TERRNIN, A.N., akademik; FIALKOVSTAYA, O.V., starshiy nauchnyy sotrulnik.

Exchange of electrons be tween the adsorbed molecules and the catalyzer. Nauch.biul.len.un. no.23:8-10 '49. (MLRA 10:4)

1. Fizicheskiy institut leningradskogo ordena Lenina Gosudarstvennogo universiteta.

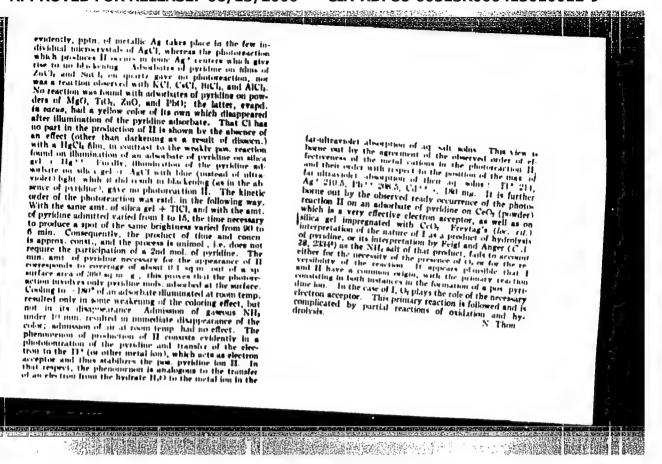
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dine vapor adached prior to the exposure, a yrinor 400 appeared dire 10 min dilumination and resons very high after large and the 10 min dilumination and resons very high after large and the 10 min dilumination and resons very high after large and the 10 min dilumination and resons very high after large and the 10 min dilumination and resons very high after large and the 10 min dilumination and the same spot I has setting a min and the color appeared. A N. Termin (A. A. Zhdanov State Lukovykanowah A. N. Termin (A. A. Zhdanovykanowah A. N. Termin (A. Zhdanovykanowah A. A. Zhdanovah A. A. Zhdanovah A. A. Zhdanovah A. Wallanovah A. Zhanovah A. Zhano

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FILLKOVSKAYA, O.V.

Relation of Intensities of Spectral Emission Bands of Alkali- Halide Phosphors Activated by Thallium."

Vest Leningar d U, Ser Mat, Fix i Khim, No. 9, PP 111-119, 1952.

A description of expts to elarify influence of various factors characterizing the physical state of principal phosphor lattice on the spectral behavior of the activator inpregnated into its particles, e.g., disintegration of a single ctystal influences the emission spectrum of dislocations of the crystal lattice, which influence is manifested in the redistribution of the intensities among the emission bands; additional heating of diffused prosphor, thus ensuring deeper diffusion of activator into the lattice, reveals role played by depth ofdeposition of activactor, concentration; and, as noted for the first time here, temp not only influences widening and displacement of spectral bands but also causes certain changes in the relation of their intenseties.

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APPROVED FOR RELEASE: 06/13/2000 hemicia-RDR86-00513R000813010012-9" USSR/Physical Chemistry - Molecules.

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14386

Author : 0. V. Fialkovskaya

Inst : Absorption spectra of certain organic compounds adsorbed

on potassium chloride

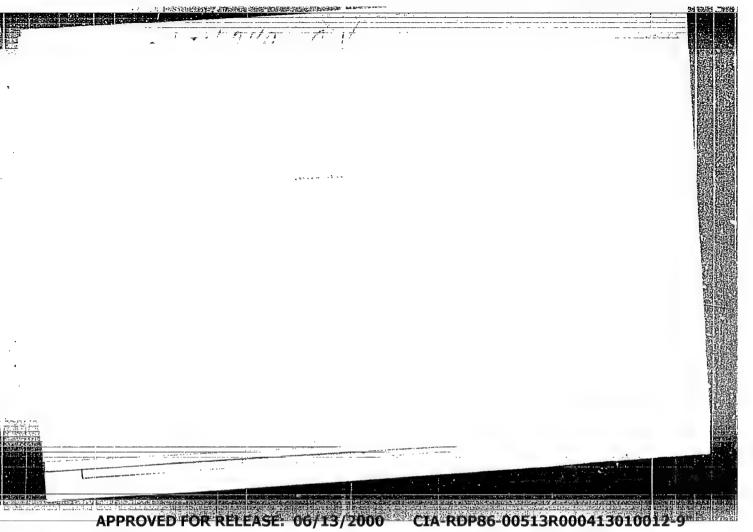
Orig Pub: Optika i spektroskopiya, 1956, 1, No 4, 595-597

Abstract: The closeness of the absorption spectra (AS) of benzene (I) and pyridine (II) adsorbed on KCl, to their AS in solid state at 180°C, as well as the reversibility of I I II sorption and desorption and the facility of their displacement by ammonia point to the physical character of adsorption; the same is observed for α -picoline and chlorobenzene; whereas the character of the change in the aniline AS in adsorption on KCl and the latter's irreversibility are apparently dependent on the chemical nature of adsorption.

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	L'vov. Universytet	
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	Rimenko, F.L., and O.V. Finikovskays. Infrared Rediction Polarizers	407
	Shatalov, A.A. Spectral Study of the Colloidal Coagulation of F-centers in Alkali Halide Crystals	148
	Fielkovskaya, O.V. Infrared Absorption Spectra of Anthracesia	151
	Vartanyan, A.T. Absorption Spectra of Sublimated Dye Layers	15%
	Melankholin, N.M. Absorption Speatrs of Thiasine-dye Crystals	157
	Fribytkova, N.N., and L.S. Agroskin. Study of the Optical Properties of Some Dyes in Large Samples by the Method of Mirror Reflection	158
	Zhidkova, Z.V., and Yu. M. Suss. Study of the Effect of the Degree of Dispersion and Nature of the Ad- sorbant on the Spestral Absorption Curve of Absorbed Sensitized Dyes Card 11/30	161
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FIALKOVSKAYA, O.V.

Infrared absorption spectra used for studying the processing products of crude benzene, light fractions of shale casing-head gasoline, and oils. Trudy kom. anal. khim. 8:236-242 '58.

(MIRA 11:8)

1. Institut fiziki Akademii nauk USSR.
(Petroleum products--Analysis)

AUTHOR:

Fialkovskaya. 0. V.

507/48-22-9-21/40

TITLE:

Infrared Absorption and Heat Emission Spectra of Some Molecular Compounds in Different States of Aggregation

(Infrakrasnyye spektry pogloshcheniya i teplovogo izlucheniya

nekotorykh molekulyarnykh soyedineniy v razlichnykh

agregatnykh sostovaniyakh)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958,

Vol 22, Nr 9, pp 1093 - 1096 (USSR)

ABSTRACT:

The author studied the infrared absorption spectra of naphthalene, of anthrazene and of phenantrene in the range of the fundamental intramolecular oscillations (700 - 1500 cm⁻¹) in different states of aggregation. This investigation was not limited to the ordinarily found states, the gaseous and the crystalline one, but also incorporated studies of solutions, of the molten, and the polycrystalline state at varying temperatures. This last type of experiment permitted to trace the process of the formation of new absorption lines which

Card 1/3

develop due to the aggregation of the molecules into a

Infrared Absorption and Heat Emission Spectra of Some SOV/48-22-9-21/40 Molecular Compounds in Different States of Aggregation

crystal. Thus the nature of individual bands was determined and the phenomenon of heat emission of crystals was discovered. Natural and polarized light was used in a temperature range of from -231 to + 220°. The absorption spectra were all obtained under completely identical experimental conditions and in some cases even with the same layer thickness. A Perkin-Elimer spectrometer Model 12C, was used. The systematic occurrence of satellite lines in an almost equal and small distance (24 cm-1) from the ground lines of intramolecular absorption and their specific behaviour in polarized light indicates that they are produced by the interaction between the lattice vibrations and the intramolecular oscillations. As regards the highly polarized bands at 726 cm⁻¹ (in the b-component) and at 742 cm-1 (in the a-component) they are obviously due to excitons. In the investigation of the absorption spectra of the anthrazene melt a heat radiation originating from it was discovered (Fig 3). This spectrum consists of a number of emission lines the maxima of which coincide

Card 2/3

Infrared Absorption and H_{eat} Emission Spectra of Some SOV/48-22-9-21/40 Molecular Compounds in Different States of Aggregation

with the maxima of the absorption bands in compliance with Kirchhoff's law (Kirkhgoff). There are 3 figures, 1

table, and 4 references, 3 of which are Soviet.

ASSOCIATION: Institut fiziki Akademii nauk USSR (Institute of

Physics, AS UkrSSR)

Card 3/3

24(7) AUTHOR:

Fialkovskaya, O. V.

307/48-23-1-12/36

TITLE:

Thermal Radiation of Naphthalone, Anthracene and Phenanthrene Within the Infrared Range of the Spectrum (Teplovoye izlucheniye naftalina, antratsena i fenantrena v infrakrasnoy

oblasti spektra)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 1, pp 62 - 65 (USSR)

ABSTRACT:

In studying the absorption spectrum of monomolecular crystals at high temperatures the author detected thermal radiation in a previous work (Ref 1). On the basis of a number of maxima she assumed the presence of thermal radiation within the infrared range of the spectrum. The radiation and absorption spectra were photographed under equal conditions. In investigating the thermal radiation only a careful heat insulation was necessary. The investigation covered the heat-radiation and absorption spectra of the melt and crystal of anthracene at 20° and 200° (Fig 1), those of the naphthacene melt at 90,110,115 and 135° (Fig 2) as well as those of the naphthalene melt at 90,100,120,160°

Card 1/2

Thermal Radiation of Naphthalene, Anthracene and Phenan-SOV/48-23-1-12/36 threne Within the Infrared Range of the Spectrum

· 1917年12日 1918年12日 1918年12日

and 180° (Fig 3). In every substance bands were detected which are characteristic of thermal radiation and correspond to the thermal excitations of molecular oscillations. The maxima appear, in accordance with Kirchhoff's law, at the same wave lengths as those of absorption bands. The intensities could not be compared to each other since the spectra were photographed at different widths of slit. In addition, the author investigated the influence of the layer thickness (d=10,50 and 100 μ) for naphthalene at 100° (Fig 4). It may be seen from the figure that the intensities of the individual bands increase with growing thickness. Finally, it is stated that thermal radiation begins at 40-50° and is suitable to the study of the natural vibration of the substances. Kopf. (Ref 2), the laboratory of the Academician Terenin, Yaroslavskiy and Aleksandrov (Ref 3) are mentioned as discoverers of similar kinds of thermal radiation.

There are 4 figures and 3 references,

2 of which are Soviet.

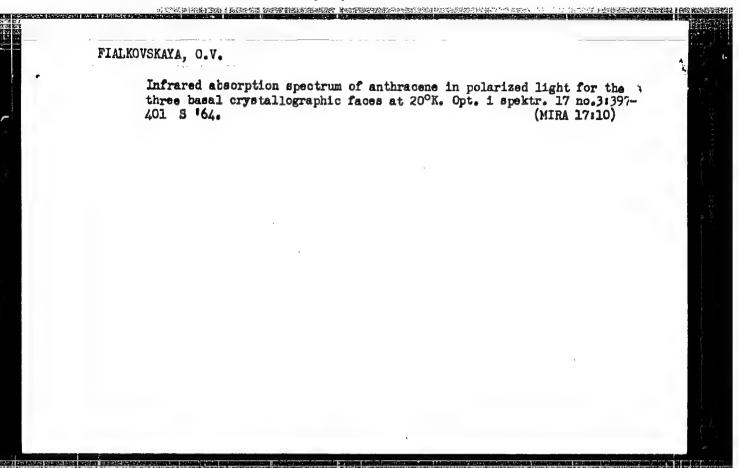
Card 2/2

Card 1/1

L 33583-66 EWT(m)/EWP(1) ACC NR: AR6016207 SOURCE CODE: UR/0058/65/000/011/D037/D037 AUTHOR: Fialkovskaya, O. V. TITLE: Influence of deuterization on the vibrational absorption spectrum of naph-SOURCE: Ref. zh. Fizika, Abs. 11D291 REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 67-69 TOPIC TAGS: naphthalene, deuterium, absorption spectrum, spectral analysis, crystal symmetry ABSTRACT: A comparative analysis of the spectra of naphthalene $C_{10}H_8$ and octadeuteronaphthalene $C_{10}D_8$ shows no change in the spectrum but only a change in the magnitude of the vibrational frequencies of the spectrum. Comparison of the spectra of naphthalene and monodeuteronaphthatlene C₁₀H₂D has disclosed a whole number of singularities which apparently are the consequence of the difference in symmetry of the component molecules of the crystals. It is found that the vibrational spectra of a mixture of $C_{10}^{H_8}$ and $C_{10}^{D_8}$ crystals have the property that the spectra of the two components are additive. [Translation of abstract]

SUB CODE: 20

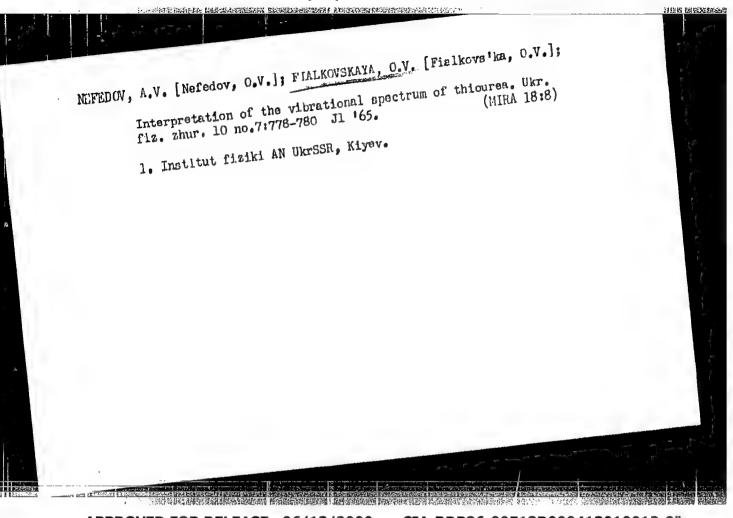
Card 1/1 9)



NEFEDOV, A.V. [Nefedov, O.V.]; FIALKOVSKAYA, O.V. [Fialkovs'ka, O.V.]

Vibration spectrum of pyrene and its interpretation. Ukr. fiz. zhur.
10 no.4:416-419 Ap '65. (MIRA 18:5)

1. Institut fiziki AN UkrSSR, Kiyev.



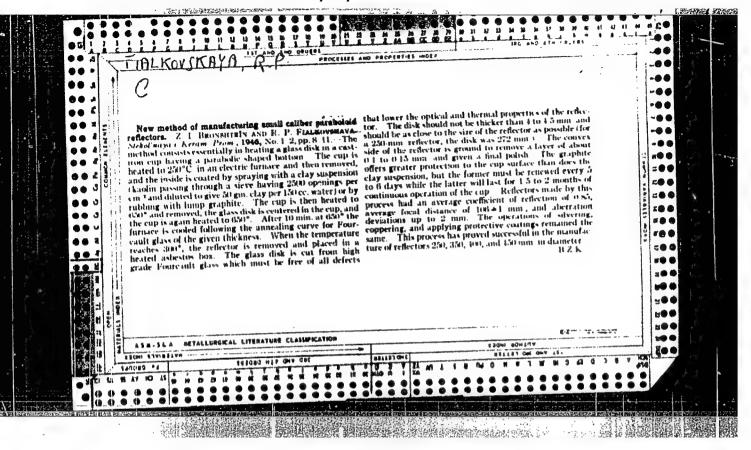
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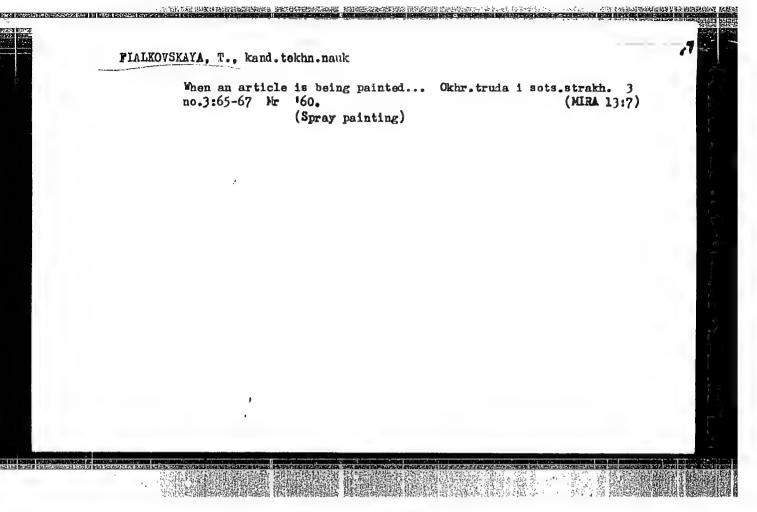
NEFEDOV, A.V. [Nefedov, O.V.]; FIALKOVSKAYA, O.V. [Fialkovs'ha, O.V.]

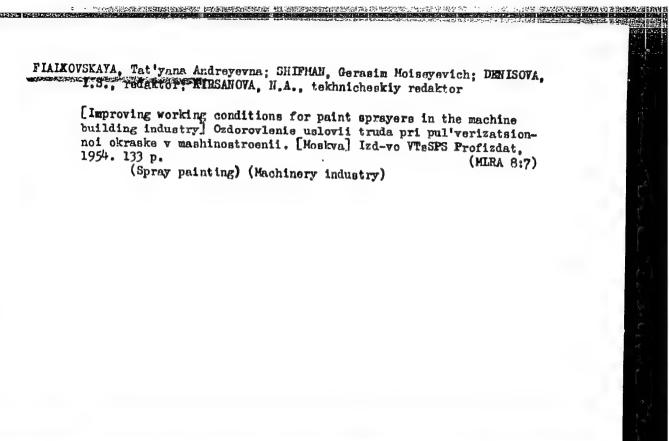
Vibrational spectrum of an acenaphthene single crystal and its comparison with spectra of molecules of similar structure.

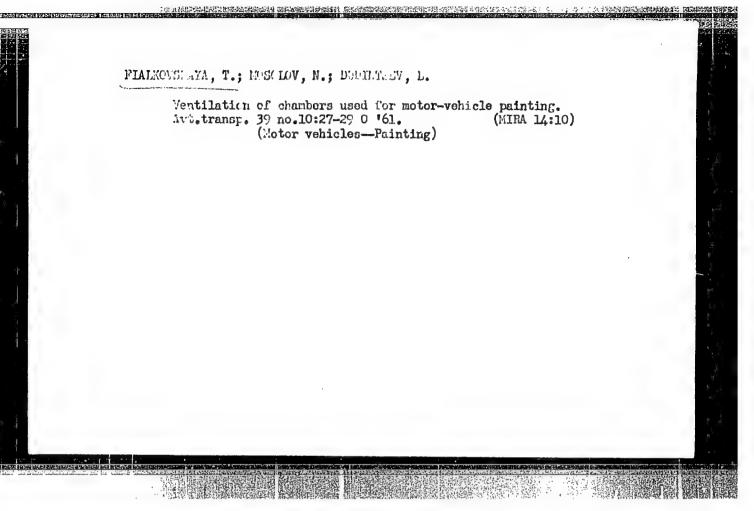
Ukr. fiz. zhur. 10 no.8:835-893 Ag '65. (MFA 18:8)

1. Institut fiziki AN UkrSSR, Kiyev.



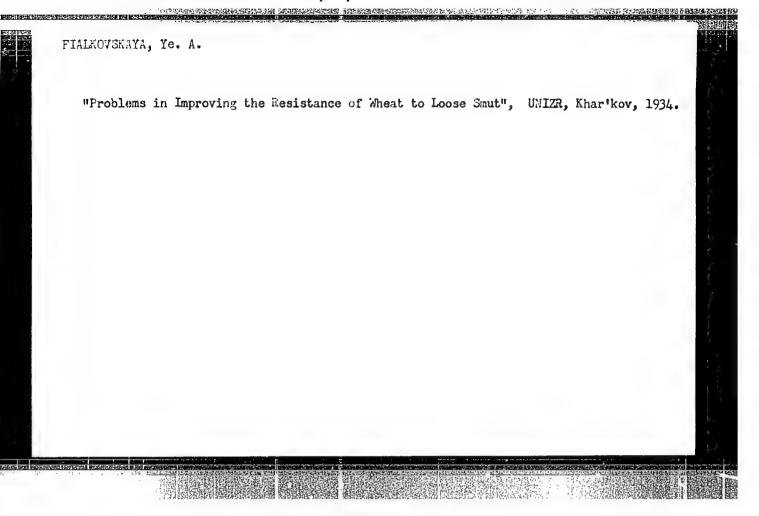






AKSENOV, N.D., kand. tekhn. nauk; FIALKOVSKAYA, T.A., kand. tekhn. nauk, retsenzent; SARANTSEV, Yu.S., inzh., red.

[Labor safety in painting large objects] Okhrana truda pri okraske krupnogabaritnykh izdelii. Moskva, Mashinostroenie, 1965. 129 p. (MIRA 18:4)



- 1. FIALKOVSKAYA, YE. A.
- 2. USSR (600)
- 7. "Ways of Making Alfalfa Healthy with Respect to the Chief Airborne Diseases", Trudi Institutu Genetiki i Selektsii (Works of the Institute of Genetics and Selection), Vol 1, 1951, pp 151-180.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

USSR / Plant Diseases. Diseases of Cultivated Plants.

0

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100562

Author

Fielkovskaya, Ye. A.

Iret

Ukrainian Scientific Research Institute of Plant Cultiva-

tion, Selection and Genetics

Title

: Determination of the Resistance in Wheat Against Loose

Smut During the Early Stages of Infection

Orig Pub

: Byul. Ukr. n.-i. in-ta rasteniyovodstva, selekts. i.

genet., 1958, No 2, 117-120

Alstract

: On the basis of comparative data from 1954 and 1956 on account of spores which had germinated on the stigms of the flowers, and on the incidence of infection in the field in wheat varieties Lyutestsens 62, Odesskaya 13, Narodnaya, Gordeiforme 48 -2 and Timofeyev Triticum, the conclusion may be drawn that it is feasible to determine the resistance of these varieties to smut by the intensity of the

Card 1/2

Card 2/2

FTALKOYSKAYA, Ye.A. [Fialkovs'ka, O.O.]; SLADKOMBDOVA, A.I. [Sladkomedova, O.I.];

SHMATOVA, N.N. [Shmatova, M.M.]

Formation of the resistance to rust and smuts in winter and spring wheat hybrids. Trudy Inst. gen. i sel. AN URSR 5:56-62 '58.

(MIRA 11:9)

(Wheat--Disease and pest resistance) (Uredineae) (Smuts)

FIALKOWSKI, Stanislaw

Experimental studies of incorporation of autografts under the influence of pharmacologically induced active hyperemia. Chir. narzad. ruchm ortop. Pol. 28 no.7:851-853 *63

1. Z Kliniki Ortopedycznej 2 CSK Wojskowej Akademii Medycznej w Warszawie (Kierownik: prof. dr. M. Garlicki).

。 1978年,1988年1月1日,1988年1月日

FIALKOVSKIY, Aleksandr Makarovich,; FERBEROV, Leonid Yakovlevich,; KUZNETSOV, K.K., otv. red.; SUROVA, V.A., red. izd-va,; SHKLYAR, S.Ya., tekhn. red.

[Handbook of materials regulating the establishing of standards for the determination of estimated costs of construction in the coal industry] Spravochnik deistvuiushchikh normativnykh dokumentov dlia opredeleniia smetnoi stoimosti stroitel'stva v ugol'noi promyahlennosti. Moskva, Ugletekhizdat, 1958. 47 p. (MIRA 11:12) (Coal)

(Building-Estimates)

FIALKOV >KIL h /11. AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV, S.S., kand. tokhn. nauk,; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye., inzh.; BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY, I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY, I.N., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSEKHOVSKIY. L.K., inzh.: VRUBLEVSKIY, A.A., inzh.: GERSHMAN, S.G., inzh.; GOLUBYATNIKOV, G.A., inzh.; GOHLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.; DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.; DROZDOV, P.F., kand. tekhn. muk.; KOZLOVSKIY, A.A., inzh.; KIRILENKO, V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk,; KORETSKIY, M.M., inzh.; KUKHARCHUK, I.N., inzh.; KUCHER, M.O., inzh.; MERZLYAK, M.V., inzh.; MIRONOV. V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.; PANKRAT'YEV, N.B., inzh.; PARKHOMENKO, V.I., kand. biol. nauk.; PINSKIY, Ye.A., inzh.; POLLUBNYY, S.A., inzh.; PORAZHENKO, F.F., inzh.; PUZANOV, I.G., inzh.; REDIN, I.P.inzh.; HEZNIK, I.S., kand, tekhn. nauk,; ROGOVSKIY, L.V., inzh.; RUDERMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.;

A.T., inzh.; SIMKIN, A.Kh., inzh.: SURDUTOVICH, I.N., inzh.; TROFIMOV, V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN, M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN, M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.; STANCHENKO, I.K., otv. red.; LISHIN, G.L., inzh., red.; KRAVTSOV, Ye.P., inzh., red.; GRIGOR YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY, I.P., red.; LEYTMAN, L.Z., red. [deceased],; GUREVICH, M.S., inzh., red.; DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV, S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk, red.; LISTOPADOV,

SADOVNIKOV, I.S., ingh.; SEVER'YANOV, N.N., kand. tekhn. nauk,; SEMESHKO,

N.P., inzh., red.; MENDELEVICH, I.R., inzh., red.[deceased]; (continued on next card

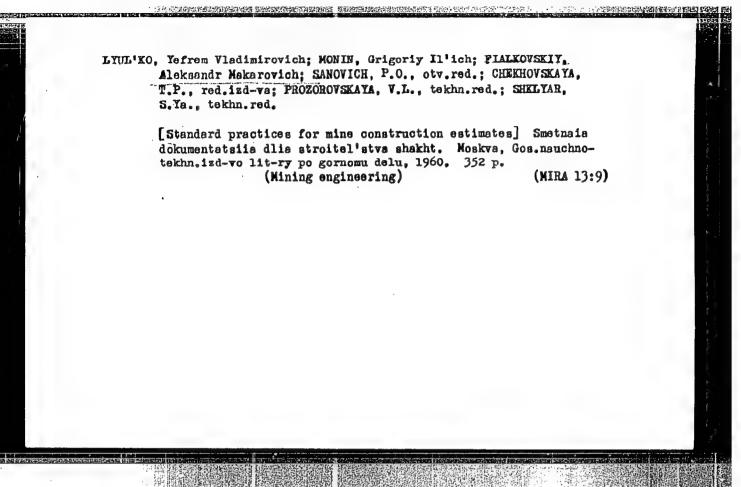
AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, N.I., insh., red.; ROZENBERG, B.M., inzh., red.; SLAVIN, D.S., inzh., red.; FEDOROV, M.P., inzh., red.; TSYMBAL, A.V., inzh., red.; SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii apravochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugol'noi' promyshl. Vol. 3.[Organization of planning; Construction of surface buildings and structures] Organizatsiia proektirovaniia; Stroitel'stve zdanii i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)

(Mining engineering)

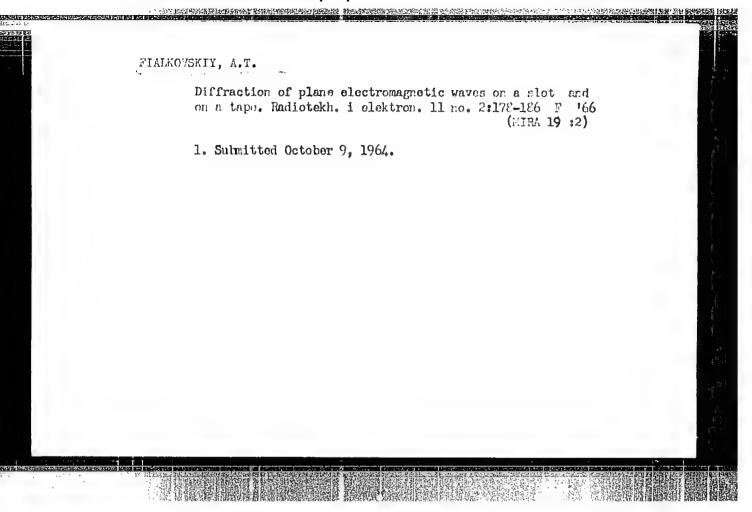
(Building)



KUZIETSOV, K.K., inzh.; FIALKOVSKIY, A.M., inzh.

Simplfying documentation of estimates and costs for work completed. Shakht. stroi. 5 no.7:7-8 Jl '61. (MIRA 15:6)

1. Vsesoyuznyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu i tekhniko-ekonomicheskim obosnovaniyam razvitiya ugol'noy promyshlennosti. (Mining industry and finanace--Accounting)



ACC NR: AP6018738

SOURCE CODE: UR/0057/66/036/006/1100/1108

AUTHOR: Fialkovskiy, A.T.

ORG: Institute of Physical Problems, AN SSSR, Moscow (Institut fizicheskikh problem AN SSSR)

TITLE: Open resonators formed by plane mirrors, with discontinuous impedance near the edges

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1100-1108

TOPIC TAGS: resonator, open resonator, resonator Q factor, electromagnetic wave reflection, electromagnetic wave diffraction, waveguide

ABSTRACT: The author employs the Wiener-Hopf method and approximation and factorization techniques discussed elsewhere by L. Vaynshteyn (ZhETF, 44, 3, 1050-1065, 1963) to calculate the reflection coefficient at a waveguide insert and at a discontinuity of the wall impedance of a waveguide, and to calculate the frequency spectrum and the Q-factors of the different modes of an open resonator of which each of the two mirrors is bordered by a band in which the surface impedance is altered or in which the plane of the reflecting surface is parallel to but not coincident with the plane of the main reflecting surface. The opon resonator calculations are presented in some detail only for the two dimensional case in which one of the dimensions of the rectangular

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mirror is infinite. Calculations were performed for three dimensional resonators with rectangular or circular mirrors; the results are discussed briefly, but the calculations themselves are not adduced because of their complexity. It is shown that bordering the mirrors with bands of altered impedance not only shifts the resonant frequencies somewhat, but also considerably increases the Q-factors of some of the modes and reduces the Q-factors of others. Under certain conditions the enhancement of the Q-factor can be very great, and it is suggested that open waveguides with bordered reflecting walls may be useful for microwave transmission in the millimeter wavelength range. The author thanks L.A. Vaynshteyn for suggesting the problem and for guidance. Orig. art. has: 40 formulas and 6 figures.

SUB CODE: 20,09/ SUBM DATE: 05Jul65/ ORIG. REF: 004/ OTH REF: 003

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ACC NRI APG018739 SOURCE CODE: UR/0057/66/036/006/1109/1114 24 AUTHOR: Fialkovskiy, A.T. 23 B ORG: Institute of Physical Problems, AN SSSR, Moscow (Institut fizicheskikh problem) AN SSSR) TITLE: Coupled oscillations of open resonators with plane mirrors and diffraction coupling SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1109-1114 TOPIC TAGS: resonator, open resonator, resonator Q factor, electromagnetic wave diffraction, coupled resonators ABSTRACT: Mathematical techniques presented elsewhere by L.A. Vaynshteyn (ZhETF, 44, 3, 1050-1065, 1963) and in the preceding paper by the author (ZhTF, 34, 1100, 1966/ see Abstract AP6018738/) are employed to discuss the oscillations of two open resonators coupled by diffraction at a common mirror. The calculations are presented for the two-dimensional case in which the end mirrors of the two resonators occupy the planes $y = d_1$ and $y = d_2$ of a Cartesian coordinate system x, y, z, and the common

mirror occupies the region y = 0, -L < x < L, but they can be generalized to the three-dimensional case of a rectangular or a circular mirror between two parallel planes. The effect of finite thickness (in the y-direction) of the common mirror is discussed.

coupled resonators. There are coupled modes with high Q-factors. It is shown that by

Formulas are given for the frequencies and Q-factors of the normal modes of the

Card 1/2

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L 41235-66 ACC NR: AP6018739 inserting a coupling mirror midway between the two mirrors of an open resonator. thereby forming a pair of coupled resonators, one increases the Q-factors of corresponding modes by a factor of 1.7. Finite thickness of the common mirror somewhat reduces the Q-factors and gives rise to additional modes, whose Q-factors, however, are low. The author thanks L.A. Vaynshteyn for suggesting the problem and for guidance, Orig. art. has: 25 formulas and 4 figures. SUB CODE: 20 / SUBM DATE: 05Jul65/ ORIG.REF: 004 / OTH REF: 001 2/2/MLP Card

経過の過失を こうじょうい

L 09375-67 ACC NRI EWT(1) SOURCE CODE: UR/0020/66/168/006/1300/1302 AP6023206 AUTHOR: Fialkovskiy, A. T. ORG: Institute of Physics Problems im. S. I. Vavilov, Academy of Sciences SSSR (Institut fizicheskikh problem Akademii nauk SSSR) TITLE: Contribution to the theory of open resonators made up of parallel discs SOURCE: AN SSSR. Doklady, v. 168, no. 6, 1966, 1300-1302 TOPIC TAGS: cavity resonator, resonator Q factor, electromagnetic wave reflection ABSTRACT: The author considers resonators consisting of two discs facing each other and spaced a distance 2l apart, with kl > 1 ($k = \omega/c$ is the wave number). The calculations for such resonators are based on the assumption that the electromagnetic fields are reflected from their edges at frequencies close to cutoff, and that the reflection coefficient is the same as for the open end of a flat waveguide. The impedance boundary conditions on the periphery of the resonator are derived and it is shown that the behavior of such a resonator is not sensitive to the ratio of the disc diameter to the distance between discs, and that for each such ratio there exists a separate spectrum of high-Q oscillations. The amplitudes excited in the resonator are calculated for the case when a plane wave is incident on one of the discs in normal direction and the discs do not have high transparency. The author thanks L. A. Vaynshteyn for suggesting the topic and guidance. This report was presented by Academician V. A. Fok 16 October 1965. Orig. art. has: 2 figures and 16 formulas. SUB CODE: 02 20 SUBM DATE: 28sep65/ ORIG REF: 002 1/120 UDC: 621.373.413

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALEYEV, A.U.; GRIGOR YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.N.; ZAKHAROV, P.M.; ZOBNIN, N.P.; IVANOV, I.I.; IL'IN, I.P.; KMETIK, P.I.; KUDRYA-SHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERTSOVSKIY, L.M.; POGODIN, A.M.; RUDOY, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY, I.P.; SITNIK, M.D.; TETEREY, B.K.; TSETYRKIN, I.Ye.; TSUKANOV, P.P.; SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFANAS'YEV, Ye.V. retsenzent; VIASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VORO-NOV. N.M., retsenzent; GRITCHENKO, V.A., retsenzent; ZHEREBIN, M.H., retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent; KOCHUROV. P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO, A.P., retsenzent; LOBAHOV, V.V., retsenzent; MOROZOV, A.S., retsenzent; ORLOV, S.P., retsenzent; PAVIUSHKOV, E.D., retsenzent; POPOV, A.N., retsenzent; PROKOF'YEV, P.F., retsenzent; RAKOV, V.A., retsenzent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHO-MIROV, I.G., retsenzent; URBAN, I.V., retsen. nt: FIALKOVSKIY, I.A., retsenzent; CHEPYZHEV, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent, SHCHERBAKOV, P.D., retsenzent; GARNYK, V.A., redaktor; LOMAGIN, N.A. redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; POBE-DIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOY, K.N., redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor; BABELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHIBSKIY, S.V., redaktor; GAMBURG, Ye.Yu., redaktor; DERIBAS, A.T., redaktor; DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; HIKHEYEV, A.P., redaktor (Continued on next card)

ALFEROV, A.A. --- (continued) Card 2.

MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIN; G.S., redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor; CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A., redaktor

[Railroad handbook] Spravochnaia knizhka zheleznodorozhnika, Izd. 3-e, ispr. i dop. Pod obshchei red. V.A.Garnyka. Moskva. Gos. transp.zhel-dor. izd-vo. 1956. 1103 p. (MIRA 9:10)

1. Nauchno-tekhnicheskoye obshchestvo zheleznodorozhnogo transporta. (Railroads)

1. 38738-06 T/MP(1) LIP(c) CG/DH ACC NRi AP6017912 (A) SOURCE CODE: PQ/0095/65/013/11-/0015/0022

AUTHOR: Fialkowski, K. R.—Fialkovskiy, K. R.

43

ORG: Department of Computing Machines, Technical University, Warsaw (Katedra budowy maszyn matematycznych, Politechnika)

TITLE: Properties and utilization of pseudosystematic weight codes

SOURCE: Polska akademia nauk. Bulletin. Serie des sciences techniques, v. 13, no. 11-12, 1965, 15-22

TOPIC TACS: weight code, pseudosystematic weight code, binary code, digital computer, algorithm, arithemtic unit, adder, complement code

ABSTRACT: The author examines the properties of a class of weight codes which he terms pseudosystematic; it includes the conventional 2's complement code, the minus two code, and other codes. The article shows that the numbers represented in a pseudosystematic code of maximum length can be put in an arithmetic progression. The original article includes a diagram giving the properties of the pseudosystematic codes and a table listing pseudosystematic codes actually and by working computers. The author describes in detail the code which he terms the 2's complementary code (as distinct from the conventional 2's complementary code). Both have the same

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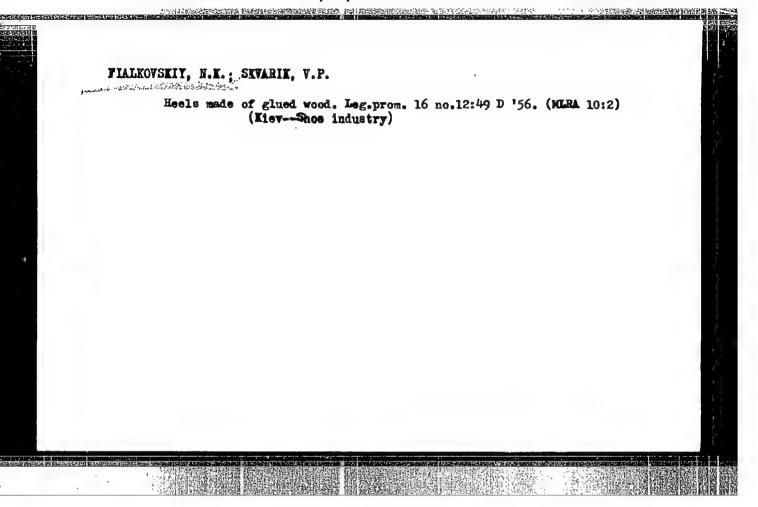
ACC NR: AP6017912

useful properties, and moreover, multiplication in the 2's complement code is closed. The author presents and proves algorithms of arithmetic operations for the 2's complement code. It follows from these algorithms that the complement adder of the conventional 2's complement code can be used to perform 2's complement additions. The arithmetic unit for the 2's complement does not need any supplementary shift equipment as compared to the unit in which the conventional 2's complement code is used. The article was presented by Y. Groszkowski on 29 August 1965. Orig. art. has: 26 formulas, 1 figure, 1 table.

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SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 005

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FIRENCEDAY, Luca

AUTHOR:

Fialkovskiy, P.G., Engineer

99-5-8/11

TITLE:

Planning of Melioration Measures in the German Democratic Republic (Proyektirovaniye meliorativnykh meropriyatiy v Germanskoy Demokraticheskoy Respublike)

PERIODICAL:

Gidrotekhnika i Melioratsiya, 1957, # 5, p 47-54 (USSR)

ABSTRACT:

The methods of planning drainage systems in the German Demorratic Republic differ in several points from those applied in the USSR. Perspective planning of melioration projects in the GDR is based on the entire territory of the state, and takes into consideration questions pertaining to hydro-economics, drainage, irrigation, water supply, erosion control, waterways, fishing industry, etc. Deviating from the methods applied in the USSR, perspective planning in the GDR is carried out in conjunction with field research with the aid of large-scale topographic and soil maps. The method of dividing the GDR into districts for the study of metereological and soil conditions is more practical than the method used in the USSR. Of considerable interest is the German method for establishing the relative profitableness of melioration projects, based on the relative value of grown crops to the nutritious value of cereals (by Berman and Abo). Drainage systems in the GDR differ

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99-5-8/11

"Planning of Melioration Measures in the German Democratic Republic"

from systems in the USSR insofar, as they are shorter and of less expensive materials. In addition, local economic conditions are taken into consideration at their construction. In the GDR mainly underground drainage systems of earthenware (clay) pipes are used for heavy soils whereby no auxiliary furrowing of the surface is required, a practice advocated for the USSR. Tests conducted with mole drainage in Austria, Switzerland, and England have shown good results, and further experiments should be carried out regarding its durability and possibility to combine this system with the system of underground drain pipes. Effective drainage of swamps is accomplished in the GDR with open ditches. Sluices are installed to raise the water table during the vegetation period. Polders with 400-450 hectars equipped with 1 pumping station each proved to be economical, as well as smaller units (20-100 hectars), not only in coastal regions but also in the valleys of large rivers where regulation work would be too expensive. The article contains 4 photographs, 1 diagram, and 1 figure.

AVAILABLE:

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Card 2/2

FIALKOVSKIY, P.G.

AUTHOR:

Fialkovskiy, P.G., Engineer

99-9-8/9

TITLE:

"Sewage Irrigation in the German Democratic Republic" (Orosheniye: stochnymi vodami v germanskoy demokraticheskoy respublike)

PERIODICAL:

"Gidrotekhnika i Melioratsiya", 1957, Nr 9, pp 53-56 (USSR)

ABSTRACT:

The successful use of sewage for farming has developed into a special branch of melioration in east Germany, whereby only mechanical purification methods are being practiced. Best results were obtained with periodic irrigation, using from 80 to 400 cu m of sewage per hectare. The year around irrigation with an application of 15,000 - 30,000 cu m per hectare have resulted in heavy leaching of K, Ca and N, concentration of P and final sterility of the soil as soon as irrigation was discontinued. Experience gathered in east Germany has shown the high efficiency as well as the practicability of using sewage without biological purification for agricultural purposes. The author recommends that plans be prepared for the installation of sewage irrigation at all large cities of the USSR. Movable aprinkling devices which are used in east Germany are fit to be applied in the USSR on a large scale. The article contains 2 photographs, and 2 figures.

Card 1/2

FIALKOVSKIY, P. G., Cand Tech Sci (diss) -- "Problems of designing a drying system of agriculture". Moscow, 1959. 27 pp (Min Agric USSR, Moscow Inst of Water Economy Engineers im V. R. Vil'yams), 300 copies (KL, No 9, 1960, 126)

30(1) AUTHOR: Fialkovskiy, P.G., Engineer SOV/99-59-11-9/15 TITLE: Methods of Calculating the Moisture Balance of Drai-PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 11, pp 38-46 ABSTRACT: This article deals with methods of calculating the moisture balance of soil in drainage projects under various conditions. Several aspects of the problem and the many factors involved are discussed by the author, and a number of expressions for determining moisture balance derived. Basic to the author's approach to the problem is a quantitative analysis of moisture conditions in the project in order to obtain the necessary initial data and material for planning the project as well as checking the appropriateness of measures taken after drainage. Reference is made to the following works: G.N. Kamen-skiy / Ref 57 on calculation of the movement of soil moisture; A.I. Ivitskiy / Ref 4 7 on the study of drainage norms; A.V. Lebedev / Ref 7 / who, Card 1/2 utilizing Kamenskiy's work, developed a method of

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SOV/99-59-11-9/15 Methods of Calculating the Moisture Balance of Drainage Projects

analysing soil moisture conditions in irrigated land, which, the author states, can also be used in connection with drainage projects; A.N. Kostyakov /Ref 6/and L.T. Abramov / Ref 1 /on the theoretical calculation of the volume of flow of atmospheric precipitation falling on the project; A.N. Kostyakov, A.A. Cherkasov and A.M. Alpat'yev / Ref 3 /on a method of determining the amount of rated water consumption on irrigated lands. There are 2 graphs, 1 diagram and 7 Soviet references.

ASSOCIATION: Rosgiprovodkhoz

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